

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A thermistor having a variable resistance part, whose resistance value changes in accordance with changes in temperature, between a first and a second electrode, the thermistor interrupting current between the first and second electrodes in response to changes in the resistance value of the variable resistance part, comprising:

a third electrode placed so that it is not in contact with either the first or second electrode; and

a heating part integrally formed with the same material as the variable resistance part and in contact with the third electrode, the heating part changing the resistance value of the variable resistance part by generating heat when current passes between the third electrode and either of the first or second ~~electrodes~~ electrode.

2. (original) A thermistor according to claim 1, wherein the heating part is provided on both sides of the variable resistance part.

3. (original) A thermistor according to claim 1, wherein the heating part is provided surrounding the variable resistance part.

4. (currently amended) A thermistor ~~described~~ according to claim ~~any one of claims 1 through 3~~, wherein:

the variable resistance part and the heating part are integrally formed in sheet form;

the first electrode is positioned on one side surface of a section comprising the variable resistance part, and the second electrode is positioned on the other side surface; and

the third electrode is positioned on either side surface of the section comprising the heating part.

5. (new) A thermistor according to claim 2 wherein:

the variable resistance part and the heating part are integrally formed in sheet form;

the first electrode is positioned on one side surface of a section comprising the variable resistance part, and the second electrode is positioned on the other side surface; and

the third electrode is positioned on either side surface of the section comprising the heating part.

6. (new) A thermistor according to claim 3 wherein:

the variable resistance part and the heating part are integrally formed in sheet form;

the first electrode is positioned on one side surface of a section comprising the variable resistance part, and the second electrode is positioned on the other side surface; and

the third electrode is positioned on either side surface of the section comprising the heating part.

7. (new) A thermistor according to claim 1 wherein the variable resistance part comprises a conductive polymer composition.